



1 What I claim my intention is

- 5
1. A device for application of liquid sample on a membrane, comprising:
a reservoir having an open end and an end opposite the open end having a capillary opening,
wherein the open end is adapted to receive liquid samples;
a frame-means for securing the membrane for application of the liquid samples; and
a reservoir-rack for positioning said reservoir above the membrane surface such that the
capillary opening of the reservoir touches and contacts the membrane.
- 9
2. The device according to claim 1 wherein the reservoir is provided as an assembly of a
plurality of the reservoirs.
- 13
3. The device according to claim 1 wherein said reservoir-rack have through-holes for
positioning the reservoirs in the reservoir-rack .
- 17
4. The device according to claim 1 wherein the reservoir-rack consists of positions for at least
96 individual reservoirs.
- 21
5. The device according to claim 1 wherein said reservoir-rack has positions for the reservoirs
asymmetrically placed.
- 25
6. The device according to claim 5 wherein said reservoir-rack is provided with a means to
position the reservoir-rack into the device by at least two alternative ways producing two
alternative footprints and the point of contacts on the membrane below for each reservoir
position on the reservoir-rack.
- 29
7. The device according to claim 5 wherein said reservoir-rack is provided with a means to
position the reservoir-rack into the device by at least four alternative ways producing four
alternative footprints and the point of contacts on the membrane below for each reservoir
position on the reservoir-rack.

1

8. The device according to claim 4 wherein the positions of the reservoir in said reservoir-rack is arranged in grid pattern such that it allows positioning of the reservoirs in columns and rows compatible with the application heads of the multi-sample pipetting devices common in the field and industry, (i.e. multi-channel pipetors).

5

9. The device according to claim 1 wherein the frame-means is provided with a means to secure the membrane in the frame-means and position the membrane opposite the reservoir-rack.

9

10. The device according to claim 1 wherein the frame-means is provided with grid marking for identifying the positions of each reservoir and/or the liquid sample applied on the membrane.

11. The device according to claim 1 wherein the capillary opening of the reservoir is a micro-pore opening protruding as a capillary tip from the main body of the reservoir.

12. The device according to claim 1 wherein the capillary opening of the reservoir has opening orifice narrow enough to prevent the free flow of the liquid samples out of the reservoir under the force of gravity.

13. The device according to claim 1 wherein the open end of the reservoir is such that liquid samples may be loaded into the reservoir through the open end.

14. The device according to claim 1 wherein the capillary opening of the reservoir allows flow of the liquid sample from the reservoir into the membrane by capillary action.

25

15. The device according to claim 1 wherein the capillary opening of the reservoir allow flow of the liquid sample from the reservoir into the membrane by centrifugal action.

29

16. The device according to claim 1 wherein the capillary opening of the reservoir may be used for taking aliquots of liquid sample using a liquid sampling pipetor placed in to open end.

095326054100901
21

1

17. The device according to claim 1 wherein said reservoir may be positioned on the multi-sample pipetting device common in the field and industry, (i.e. multi-channel pipetors) for taking an aliquot of liquid sample through the capillary opening for application of the liquid samples on the membrane.

5

18. The device according to claim 1 wherein the capillary opening of the reservoir is a micro-pore opening.

9

19. A device for application of liquid sample on a membrane, comprising:
a reservoir having an open end and an end opposite the open end having a capillary opening, wherein the open end is adapted to receive liquid samples and/or liquid pipetting devices for aliquoting the liquid sample through the capillary opening;
a frame-means for securing the membrane for application of the liquid samples; and
a reservoir-rack for positioning said reservoir above the membrane surface such that the capillary opening of the reservoir touches and contacts the membrane.

019326057.100904

25

29